

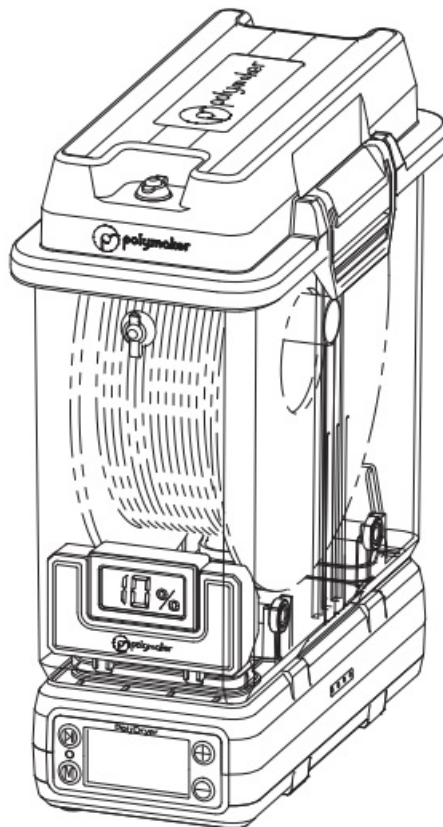
polymaker PolyDryer Filament Dry Box Instruction Manual



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PolyDryer™ & PolyDryer™ Box





www.polymaker.com

Read Before Use

- Read these instructions before using this product.
- If you buy a PolyDryer™ Box without the Dry Dock, please refer to the relevant information in this manual.
- When unattended, please turn off the power supply to prevent accidental fire.
- Remove the power cord from the socket when the product is not in use.
- DO NOT put anything into the heating vent to avoid electric shock.
- DO NOT touch the heating vent when in operation to avoid a burn.
- Pay attention to electrical safety during operation, otherwise, electrical shock, fire, or damage may occur. Do not use this product near water, such as in bathrooms, near water heaters, or in highly humid locations.
- Keep the filament tightly wound to the spool or feed the tip of the filament through the outlet while drying to prevent the loose end blocking the heating vent. Risk of fire or damage.
- Only use the original power adapter.
- DO NOT disassemble or repair it without guidance.
- Always operate on a level surface.
- This user guide is provided for the convenience of users. Diagrams and descriptions may vary slightly from the actual product. The contents of this user guide can be changed without notice.
- If there is a fault with the product, disconnect the power adapter from the filament dryer and the electrical socket then contact the after-sales support team.
- Remove the desiccant box from the PolyDryer™ Box when filling or changing the desiccant.
- DO NOT place loose desiccant at the bottom of the PolyDryer™ Box.
- DO NOT operate if any debris (including desiccant) is dropped in the Dry Dock.
- DO NOT leave the dryer unattended when switched to Continuous Mode.

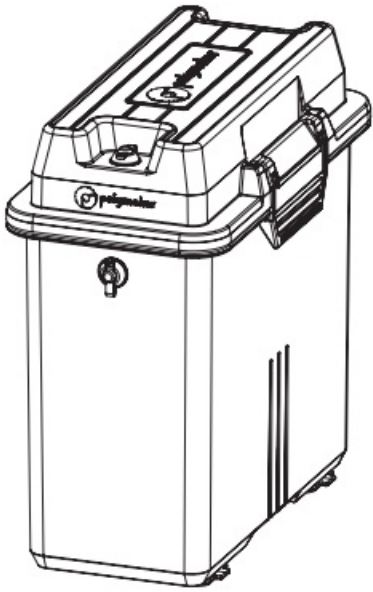
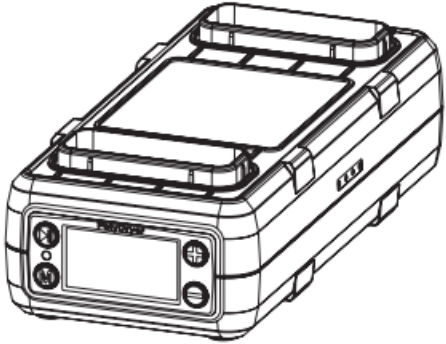
PolyDryer™ Specification


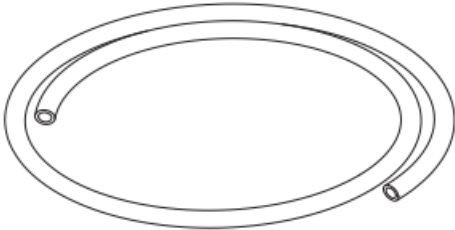
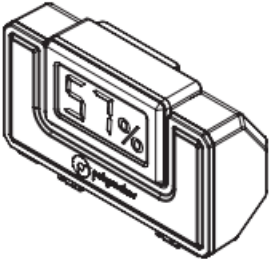

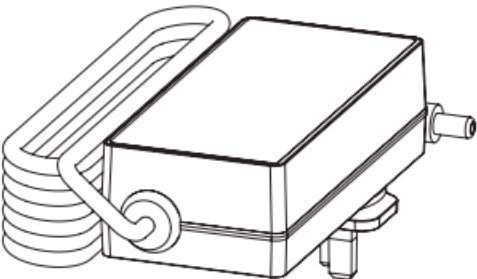
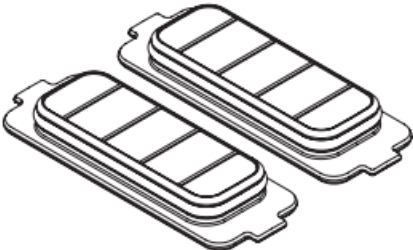
Product Description	3D Printing Filament Dryer
Product Size	235(L) x 120(W) x 290(H) mm
Power Adapter Specification	Input: AC 100~240V, 50/60Hz Output: DC 24V, 68W
Maximum Working Power	68W
Working Environment	Environment temperature: 20°C ~ 35°C Relative humidity: below 90%
Maximum Capacity	205 Ø *78(H) mm (Filament with spool)
Conduct Filament Diameter	1.75 / 2.85 / 3.00 mm
Supported Material	PLA / PVB / PETG / ABS / ASA / TPU / PA / PC / PVA / PolySupport™ / PolySupport™ for PA12

PolyDryer™ Box Specification

Product Description	3D Printing Filament Storage Box
Product Size	235(L) x 120(W) x 235(H) mm
Maximum Capacity	205 Ø *78(H) mm (Filament with spool)
Conduct Filament Diameter	1.75 / 2.85 / 3.00 mm




Packing List

	
PolyDryer™ Box	Dry Dock*

	
Spool Roller	50cm PTFE Tube
	
Hygrometer & Desiccant box	30g Color Changing Silica Gel Desiccant
	
Power Adapter*	(2x) Airlock

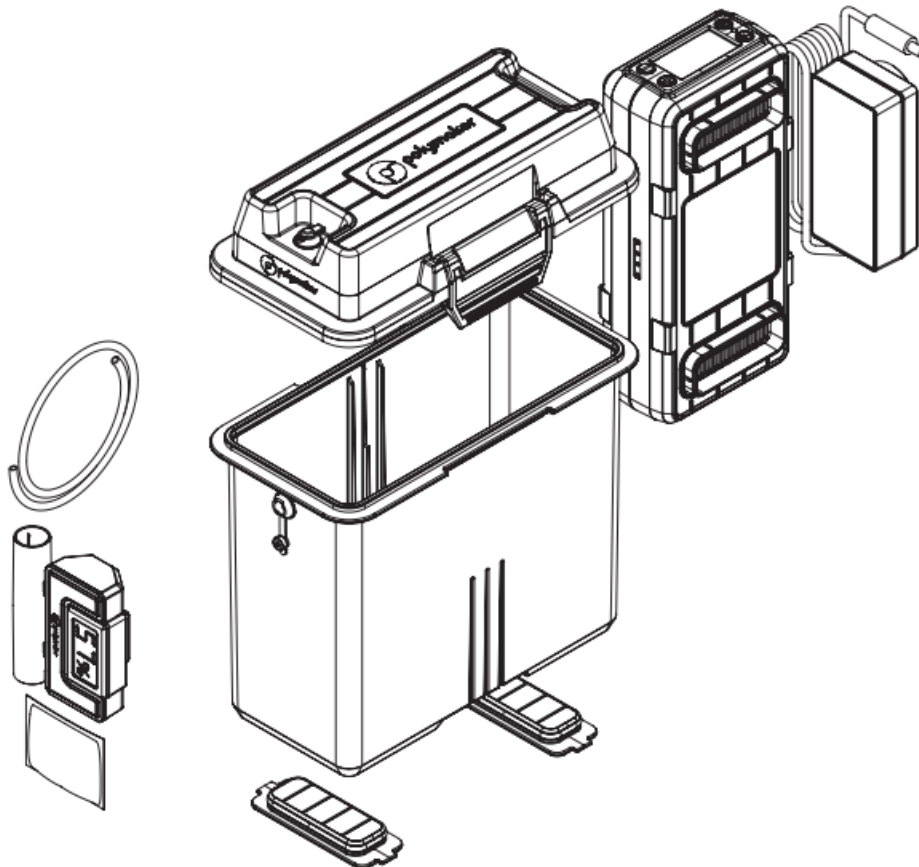
* NOT included in PolyDryer™ Box

Recommended power level and drying time

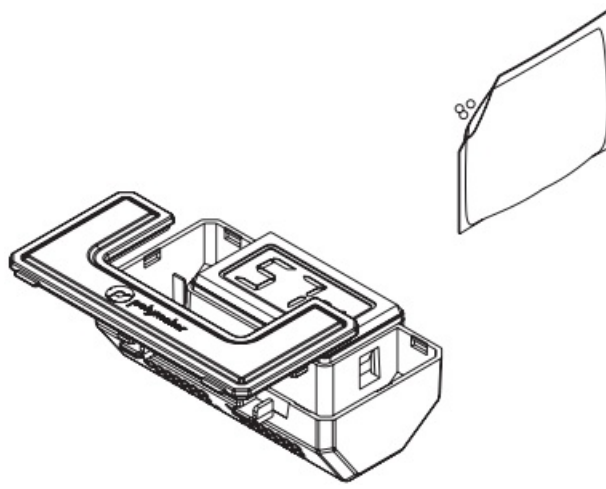
Material	Drying Time	Power Level
PLA	6 hours	 Level 1
PolySupport™	6 hours	
PETG	6 hours	 Level 2
ABS	6 hours	
ASA	6 hours	
TPU	12 hours	
PVB	18 hours	 Level 3
PC	6 hours	
PA	18 hours	
PVA	24 hours	
PolySupport™ for PA12	12 hours	

When factors, such as environmental temperature, humidity and storage time are different, the drying times and power level can be adjusted accordingly. The drying time recommendation is based on the condition of the testing samples which were exposed to an environment of 25°C and 70% RH for 5 days.

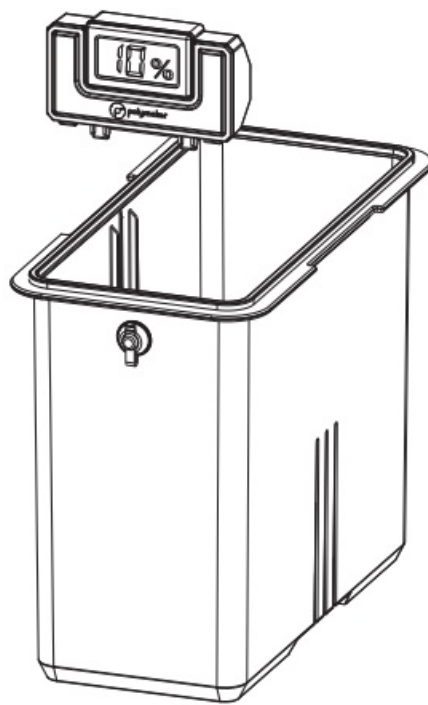
Quick Start Guide



1. Open PolyDryer™ Box and remove all the components from the Box



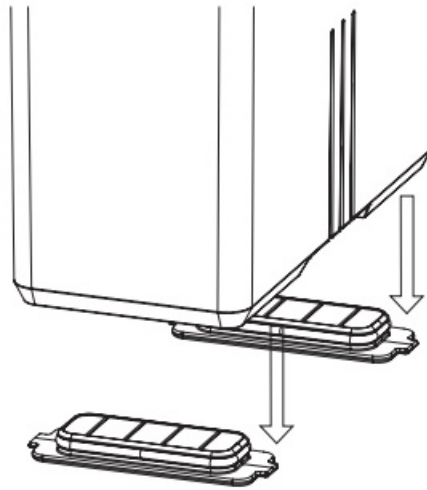
2. Cut the desiccant bag and pour the silica gel into the desiccant box



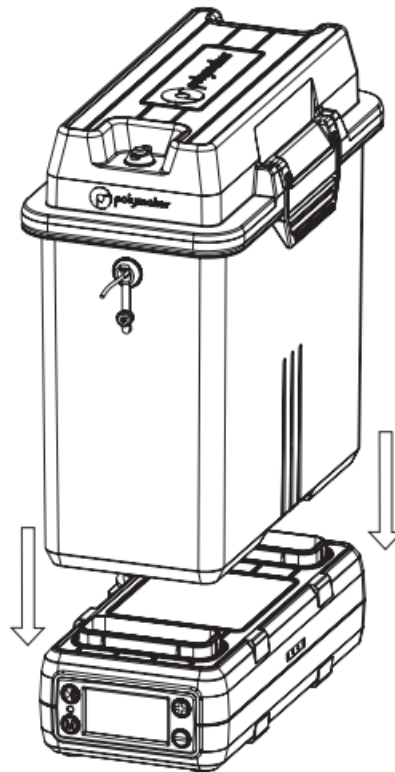
3. Insert the desiccant box into the PolyDryer™ Box



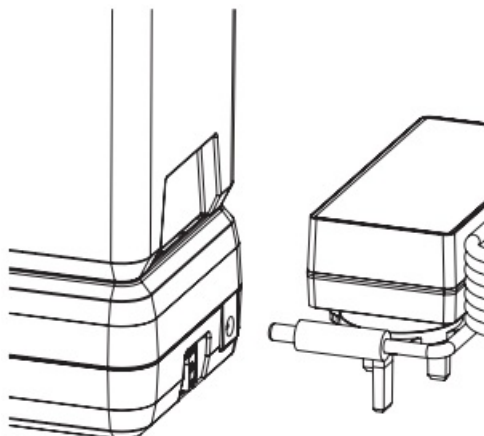
4. Feed the filament through the outlet plug and then place the spool in



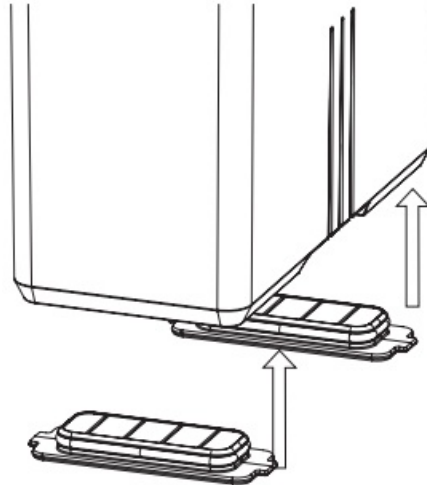
5. Remove the Airlocks



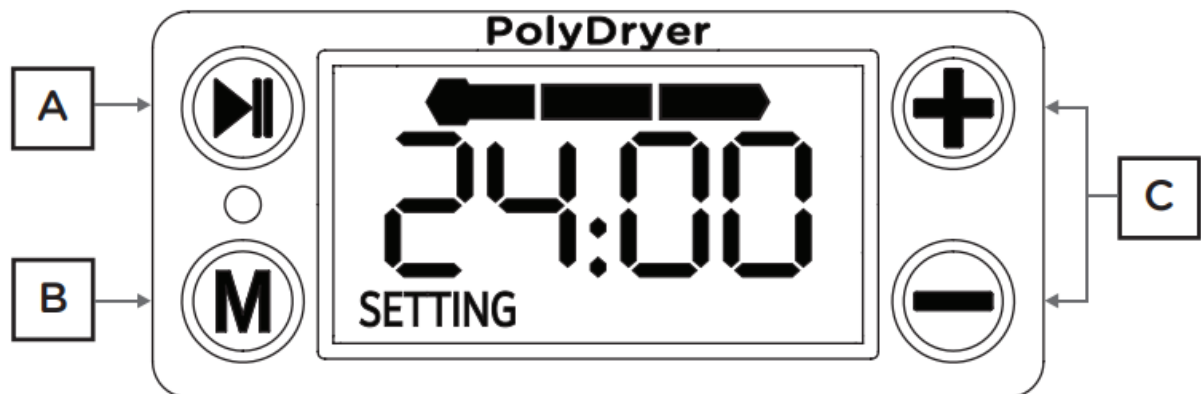
6. Mount the PolyDryer™ Box on the Dry Dock



7. Connect power supply and switch on the Dry Dock



8. After the drying process is complete, remove the PolyDryer™ Box from the Dry Dock and replace the Airlocks tightly to ensure the best seal



Setup drying time and power level based on filament material, then press ►|| to start drying, Enjoy!

A: Start drying / Pause Drying

B: Adjust drying power

- Long press to access Continuous Mode
- Please review Recommended Power level before start drying

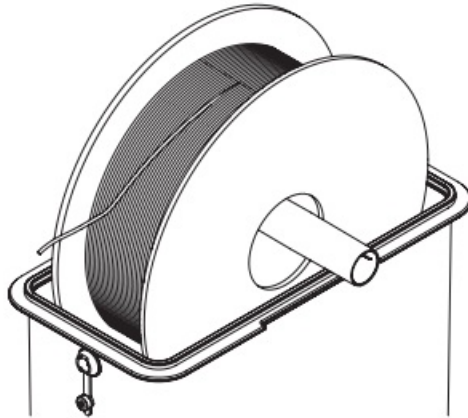
C: Adjust drying time (+ -)

- Max. 24 hours in Regular Mode
- Press + and - buttons together to reset the drying time

Note

- When you notice that the hygrometer display has faded, please replace the battery with 1.5V LR44.
- When the screen shows E001/E002/E003/E004, please turn off the machine and contact support@polymaker.cm to report the issue.
- In Continuous Mode, the drying time is unlimited until the user stops the drying process.
- Use spool roller to internally mount the spool, when the edge of spool damaged.

- To enhance printing quality, please dry the filament completely in reference to the settings in Recommended Power level.



- When you notice the most of desiccant has changed color from blue to light pink, then the desiccant has absorbed enough moisture and must be dried. The recommended procedure is as follows:
1. Place the PolyDryer™ Box without the filament on the Dry Dock, use power level 3 and dry for ~8 hours until the desiccant turns blue. The desiccant should be placed in the same orientation as the screen on the Dry Dock , which facilitates the hot air blowing onto the desiccant and improves drying efficiency.
 2. Remove the silica gel desiccant from the PolyDryer™ Box (without including any other parts) and place it in a heat-resistant container. Use an oven to heat at 110-130°C for 1-2 hours until the desiccant turns blue.
 3. Remove the silica gel desiccant from the PolyDryer™ Box (without including any other parts) and place it in a heat-resistant container. Use a microwave, select a low power level, heat for 30 seconds, then flip the desiccant, and heat for another 30 seconds until the desiccant turns blue.



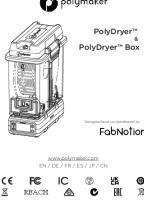
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Shanghai – Houston – Houten
For any inquiries or technical support, please contact:
support@polymaker.com
JF Polymers (Suzhou) Co., Ltd





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References

-  [er.com is for sale | www.oxley.com](http://www.oxley.com)
-  [Polymaker - Simplify Creation - Simplify Creation](#)
- [User Manual](#)

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